

Claims

1. A blister form medicament pack comprising

5 (a) a base sheet in which blisters are formed to define pockets therein for the containment of inhalable medicament;

(b) a lid sheet which is sealable to the base sheet except in the region of the blisters and mechanically peelable from the base sheet to enable release of said inhalable
10 medicament,

wherein said base sheet and/or said lid sheet have a laminate structure comprising (a) a first layer of aluminium foil; and (b) a second layer of polymeric material of thickness from 10 to 60 micron, said polymeric material having a water vapour
15 permeability of less than $0.6 \text{ g}/(100 \text{ inches}^2) (24 \text{ hours}) (\text{mil})$ at 25°C .

2. A blister form medicament pack according to claim 1, wherein the polymeric material is selected from the group consisting of polypropylene; polyethylene; polyvinylidene chloride (PVDC); polychlorotrifluoroethylene (PCTFE); cyclic olefin
20 copolymer (COC); and cyclic olefin polymer (COP).

3. A blister form medicament pack according to claim 2, wherein the polymeric material is polypropylene having a form selected from the group consisting of oriented or cast form.

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4. A blister form medicament pack according to claim 2, wherein the polymeric material is polyethylene having a form selected from the group consisting of high, low or intermediate density form.

5. A blister form medicament pack according to any of claims 1 to 4, in the form of an elongate peelable blister strip having multiple distinct blister portions provided along its length.

5 6. A blister form medicament pack according to any of claims 1 to 5, wherein the polymeric material of the second layer has a water vapour permeability of less than $0.3 \text{ g}/(100 \text{ inches}^2) (24 \text{ hours}) (\text{mil})$ at 25°C .

7. A blister form medicament pack according to any of claims 1 to 6, wherein the
10 thickness of the second layer is from 20 to 30 micron.

8. A blister form medicament pack according to any of claims 1 to 7, wherein the second layer is an inner layer of the pack.

15 9. A blister form medicament pack according to any of claims 1 to 8, wherein the lid sheet comprises at least the following successive layers: (a) paper; bonded to (b) plastic film; bonded to (c) aluminium foil.

10. A blister form medicament pack according to claim 9, wherein the aluminium
20 foil is further provided with a layer of heat seal lacquer.

11. A blister form medicament pack according to either of claims 9 or 10, wherein said plastic film layer comprises a material selected from the group consisting of polyester, polyamide, polypropylene and PVC.

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12. A blister form medicament pack according to claim 11, wherein the plastic film is an oriented plastic film comprising a material selected from the group consisting of oriented polyamide (OPA), oriented polyester (OPET), and oriented polypropylene (OPP).

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13. A blister form medicament pack according to either of claims 11 or 12, wherein the plastic layer has a thickness of from 5 to 40 μm .

14. A blister form medicament pack according to any of claims 9 to 13, wherein
5 the aluminium layer has a thickness of from 15 to 60 μm .

15. A blister form medicament pack according to any of claims 1 to 14, wherein the base sheet comprises at least the following successive layers: (a) oriented polyamide (OPA); adhesively bonded to (b) aluminium foil; adhesively bonded to (c)
10 a layer of thickness from 10 to 60 micron comprising the polymeric material having a water vapour permeability of less than 0.6 g / (100 inches²) (24 hours) (mil) at 25°C.

16. A blister form medicament pack according to claim 15, wherein the polymeric
15 layer is from 20 to 30 micron.

17. A blister form medicament pack according to claim 15, wherein the polymeric material comprises cast polypropylene and the thickness of the polymeric layer is from 20 to 30 micron.

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18. A blister form medicament pack according to claim 15, wherein the polymeric material comprises high density polyethylene (HDPE) and the thickness of the polymeric layer is from 35 to 45 micron.

25 19. A blister form medicament pack according to claim 15, wherein the polymeric material comprises low density polyethylene (LDPE) and the thickness of the polymeric layer is from 20 to 30 micron.

20. A blister form medicament pack according to claim 15, wherein the polymeric
30 material comprises polyvinylidene chloride (PVDC) and the thickness of the polymeric layer is from 20 to 30 micron.

21. A blister form medicament pack according to claim 15, wherein the polymeric material comprises polychlorotrifluoroethylene (PCTFE) and the thickness of the polymeric layer is 20 to 45 micron.

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22. A blister form medicament pack according to claim 15, wherein the polymeric material comprises cyclic olefin copolymer (COC) and the thickness of the polymeric layer is from 20 to 30 micron.

10 23. A blister form medicament pack according to any of claims 1 to 22, wherein one or more of said blisters of the pack contain inhalable medicament in dry powder form.

24. A blister form medicament pack according to claim 23, wherein said inhalable
15 medicament comprises one or more medicament actives selected from the group consisting of anti-inflammatory agents, anticholinergic agents, other β_2 -adrenoreceptor agonists, antiinfective agents, antihistamines and any mixtures thereof.

20 25. A blister form medicament pack according to claim 24, wherein said anti-inflammatory agents are selected from the group consisting of corticosteroids, NSAIDs and any mixtures thereof.

26. A blister form medicament pack according to claim 25, wherein said
25 corticosteroids are selected from the group consisting of methyl prednisolone, prednisolone, dexamethasone, fluticasone propionate, $6\alpha,9\alpha$ -difluoro- 17α -[(2-furanylcarbonyl)oxy]- 11β -hydroxy- 16α -methyl-3-oxo-androsta-1,4-diene- 17β -carbothioic acid S-fluoromethyl ester, $6\alpha,9\alpha$ -difluoro- 11β -hydroxy- 16α -methyl-3-oxo- 17α -propionyloxy- androsta-1,4-diene- 17β -carbothioic acid S-(2-oxo-tetrahydro-
30 furan-3S-yl) ester, beclomethasone esters, flunisolide, mometasone esters,

triamcinolone acetonide, rofleponide, ciclesonide, butixocort propionate, RPR-106541, and ST-126 and any mixtures thereof.

27. A blister form medicament pack according to claim 25, wherein said NSAIDs
5 are selected from the group consisting of sodium cromoglycate, nedocromil sodium, phosphodiesterase (PDE) inhibitors, leukotriene antagonists, inhibitors of leukotriene synthesis, iNOS inhibitors, tryptase and elastase inhibitors, beta-2 integrin antagonists, adenosine receptor agonists or antagonists, cytokine antagonists, inhibitors of cytokine synthesis and any mixtures thereof.

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28. A medicament dispenser device comprising a housing; and within said housing a blister form medicament pack according to any of claims 23 to 27, wherein the dispenser device includes an internal mechanism for dispensing the inhalable medicament from the blisters of the medicament pack, said mechanism comprising,

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a) an opening station for receiving a pocket of the medicament pack;

b) peeling means positioned to engage a base sheet and a lid sheet of a pocket which has been received in said opening station for peeling apart such a base sheet
20 and lid sheet, to open such a pocket, said peeling means including lid driving means for pulling apart a lid sheet and a base sheet of a pocket that has been received at said opening station;

c) an outlet, positioned to be in communication with an opened pocket through
25 which a user can access a medicament dose from such an opened pocket;

d) indexing means for individually indexing the distinct pockets of the medicament pack.

30 29. Use of a medicament dispenser device according to claim 34 for dispensing inhalable medicament.